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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/844,986	04/30/2001	Mikolaj Jawosiuk	NOVA-004	1404
7590 07/08/2004			EXAMINER	
A.J. O'Lenick, Jr. 2170 Luke Edwards Road			DESAI, RITA J	
Dacula, GA 30019			ART UNIT	PAPER NUMBER
			1625	

DATE MAILED: 07/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/844,986	JAWOSIUK ET AL.				
Office Action Summary	Examiner	Art Unit				
•		·				
The MAILING DATE of this communication app	Rita J. Desai	1625 orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	<u> </u>					
,						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-9 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date <u>4/3/01</u> . 6) Other:						

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DETAILED ACTION

Claims pending 1-9

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 4124564 Minagawa et al.

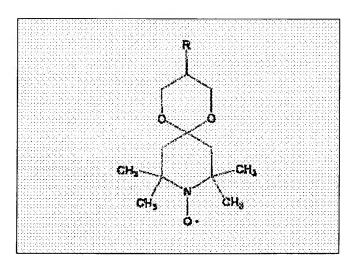
And DE 4219471

Also see US 5254760 Winter et al,

US 3790525 Keiuke et al

Applicants compounds are drawn to 2,2,6,6-tetramethylpiperidine based spiro ketals.

With an R group which can be a Hydrogen or a lower alkyl.



Determination of the scope and content of the prior art (MPEP §2141.01)

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DE 4219471 also teaches the spiro ketals with 2 methyl groups in the para position.

US 4124564 Minagawa et al teaches the piperidine nitros but with the alcohol group.

The alcohol is the point of reaction during polymerization as seen in the reference.

US 3790525 teaches the the piperidine wherein R is a hydrogen, see whole document especially lines 25-40 of column 1, formula II.

US 5254,760 teaches the nitoxyl compound as an inhibitor see lines 5-15 of column 3.

US 6117276 Cunkle et al teaches that nitroxy compounds prevent premature polymerization.

Ascertainment of the difference between the prior art and the claims (MPEP §2141.02)

Applicants compounds are drawn to R being a H or a lower alkyl, where as the reference compounds have 2 alkyl groups at that position or an alcohol group.

The prior art teaches that nitroxyls are good inhibitors, and also the nitroso compound with 2 alkyl groups on the ketal.

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Finding of prima facie obviousness--rational and motivation (MPEP §2142-2413)

Thus the references as given above teach similar compounds for the same use.

It is well established that the substitution of methyl for hydrogen on a known compound is not a patentable modification absent unexpected or unobvious results. In re Wood, 199 U.S.P.Q. 137 (C.C.P.A. 1978) and In re Lohr, 137 U.S.P.Q. 548, 549 (C.C.P.A. 1963). The motivation to make the claimed compounds derives from the expectation that structurally similar compounds would possess similar activity (ie. Prevent undesired free radical polymerization). Thus it would be obvious for one skill in the art and hence be motivated to the make the compounds of the invention, without any unexpected showing of unexpected results.

Conclusion

The claims 1-9 are not found to be allowable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita J. Desai whose telephone number is 571-272-0684. The examiner can normally be reached on Monday - Friday,9:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane can be reached on 571-272-0699. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rita J. Desai Primary Examiner Art Unit 1625

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R.D. July 6, 2004 RDesai 16/04